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6. (Amended) A substantially pure double-stranded DNA of claim 5 wherein said alpha subunit(s) are encoded by DNA sequences selected from the group consisting of pHYP16, ATCC No. 67646, which encodes alpha2; pPCA48, ATCC No. 67642, which encodes alpha3; pHYA23-1(E)1, ATCC No. 67644, which encodes alpha4.1; and pHIP3C(E)3, ATCC No. 7645, which encodes alpha4.2; **and PC1321, ATCC No. (67652), which encodes alpha5;** and said beta subunit(s) are encoded by DNA sequences selected from the group consisting of pPCX49, ATCC No. 67643, which encodes beta2; and ESD76, ATCC No. 67653, which encodes beta 3[, **and pZPC13, ATCC No. 67893, which encodes beta4].**

7. (Amended) Substantially pure DNA sequences selected from the group consisting of DNA sequences shown in Figures 2A(1), 2A(2), 2A(3) (for alpha4.1); Figures 2B(1), 2B(2), 2B(3) (for alpha4.2); Figures 7B(1), 7B(2), 7B(3) (for beta2); Figures 15C(1), 15C(2), 15C(3) (for alpha2); and Figure 19 (for Beta3)[; **Figure 24 (for beta4); and Figure 25 (for alpha5)].**

8. (Amended) Substantially pure DNA sequences that are functionally equivalent to any of the substantially pure DNA sequences selected from the group consisting of: pHYP16, ATCC No. 67646, which encodes alpha2; pHYA23-1, ATCC No. 67644, which encodes alpha4.1; pHIP3C(E)3, ATCC No. 67645, which encodes alpha4.2; **[PC1321, ATCC No. 67652, which encodes alpha5;]** pPCX49, ATCC No. 67643, which encodes beta2; ESD76, ATCC No. 67653, which encodes beta3[, **and pZPC13, ATCC No. 67893, which encodes beta4].**

9. (Amended) Substantially pure DNA sequences that are functionally equivalent to any of the substantially pure DNA sequences shown in Figures 2A(1), 2A(2), 2A(3) (for alpha4.1); Figures 2B(1), 2B(2), 2B(3) (for alpha4.2); Figures 7B(1), 7B(2), 7B(3) (for beta2); Figures 15C(1), 15C(2), 15C(3) (for alpha2); and Figure 19 (for Beta3)[; **Figure 24 (for beta4); and Figure 25 (for alpha5)].**

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11. (Reiterated) DNA sequences having substantial sequence homology with the DNA of Claim 5.

12. (Reiterated) mRNA sequences transcribed from the substantially pure DNA of Claim 5.

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14. (Reiterated) Cells transformed by the substantially pure DNA of Claim 5.

Please add the following new claims:

15. (New) Isolated nucleic acid that hybridizes under stringent conditions to nucleic acid sequences encoding polypeptides selected from the polypeptide sequences set forth in Figures 15C(1-3) (for alpha 2); Figures 2A(1-3) (for alpha4.1); Figures 2B(1-3) (for alpha4.2); Figures 7B(1-2) (for beta2); and Figure 19 (for beta3).

16. (New) A RNA complementary to the nucleic acid of claim 7.

17. (New) A vector containing the nucleic acid of claim 5.

REMARKS

By the present communication, the specification has been amended to update the status of related applications. No new matter is introduced by this Amendment to the specification provided herewith as this Amendment merely identifies related applications to which priority is claimed.